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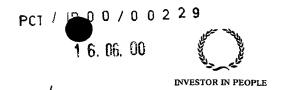
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I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein.

In accordance with the Patents (Companies Re-registration) Rules 1982, if a company named in this certificate and any accompanying documents has re-registered under the Companies Act 1980 with the same name as that with which it was registered immediately before re-registration save for the substitution as, or inclusion as, the last part of the name of the words "public limited company" or their equivalents in Welsh, references to the name of the company in this certificate and any accompanying documents shall be treated as references to the name with which it is so re-registered.

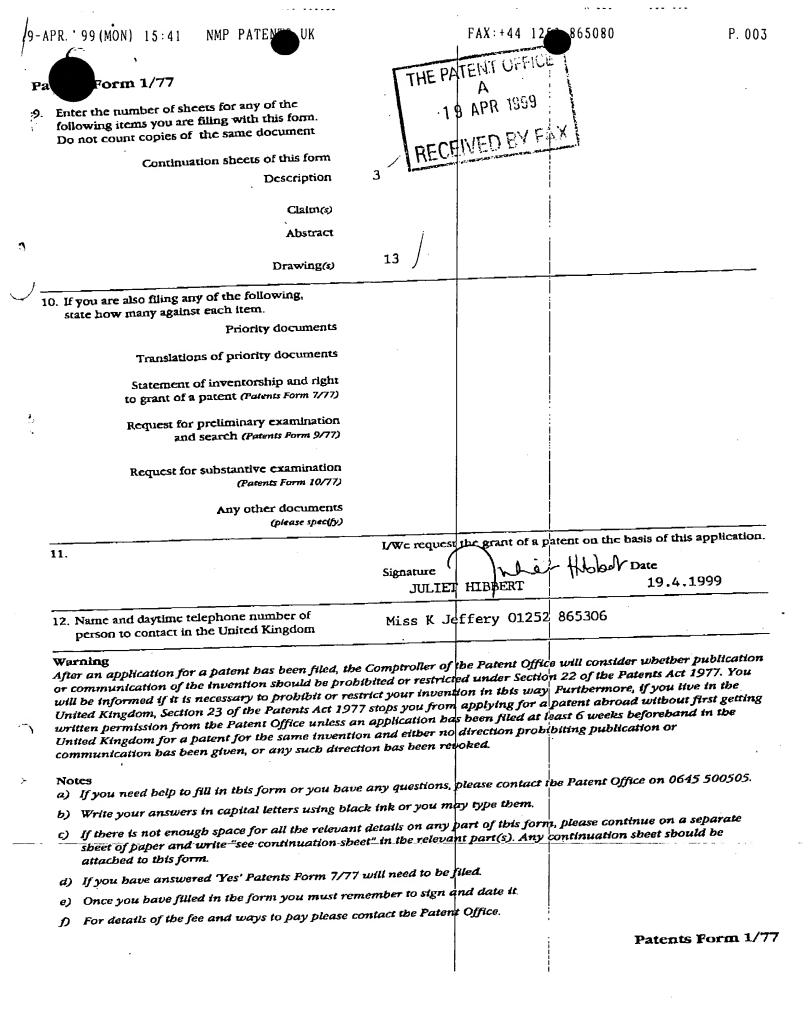
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Dated - 5 MAY 2000





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PAT 99409q

Considering the global environment where the multimedia services are to be applied, several call set-up scenarios are possible for circuit switched H.324 multimedia service. A significant part of the H.324 calls will be between two 3GPP terminals. Other currently identified call scenarios are between 3G-PSTN, 3G-ISDN and 3G-IP.

The H.245 [7] is a control protocol that is common between the different multimedia systems V.70, H.310, H.323 and H.324. The control protocol is run on the logical control channel and is used for example to negotiate master/slave configuration, bit rate, codecs to be used, to measure the round trip delay, logical channels to be used and the type of each logical channel. H.245 procedures are executed after successful call set-up and are not covered in detail in this specification.

- In all call set-up scenarios of this specification, it is assumed that H.324 service related bitstream descriptor H.223/H.245 is indicated in the BC IE and the LLC IE in the 04.08 [13] set-up message. This is further analysed in a separate section in clause 4 of this specification.
- In some interworking scenarios a gateway is possible. This can then be, e.g., a gateway as described in H.246 [8] possibly with less or more functions. The 3G H.324 IP scenario is such and suggested procedures are FFS in other UMTS specifications.

Definitions.

- For the purposes of the present document, the terms and definitions apply.

 bearer capability information: Specific information defining the lower layer characteristics required within the network.

 low layer compatibility information: Information defining the lower layer characteristics of the terminal.
- bigh layer compatibility information: Information defining the higher layer characteristics of the terminal.

 compatibility information: This term subsumes the entirety of Bearer Capability, Low Layer Compatibility, High Layer Compatibility, Progress Indicator and Address Information conveyed out-of-band prior to call establishment for the support of compatibility checking and terminal/function/service selection at the ISDN-type
- user-network interface.

 progress indicator: Information supplied to indicate to the terminal that network interworking has taken place.
- out-of-band parameter exchange: Information exchanged via an associated or non-associated signalling link e.g. SS-No-7.

 PSTN: Subscriber to network interface supports only analogue terminals.

ISDN: Subscriber to network interface supports digital or analogue terminals, plus a standardised user to network associated signalling system and a standardized internetwork signalling system.

Mobile/3G H.324 terminal: a H.324 terminal following the specifications stated in [1], utilising mobile adaptations of the multiplexing layer in ITU-T H.223 [3] (i.e. 5 H.223 Annex A [4], B [5] and C [6]) is hereafter referenced in this specification as H.324 terminal for simplicity. Those mobile adaptations may or may not be used in non-3G H.324 terminals - the in-band peer-to-peer multiplex level exchange is outside the scope of this specification.

ANSam: Answer sinewave signal at 2100 Hz, amplitude-modulated. 10

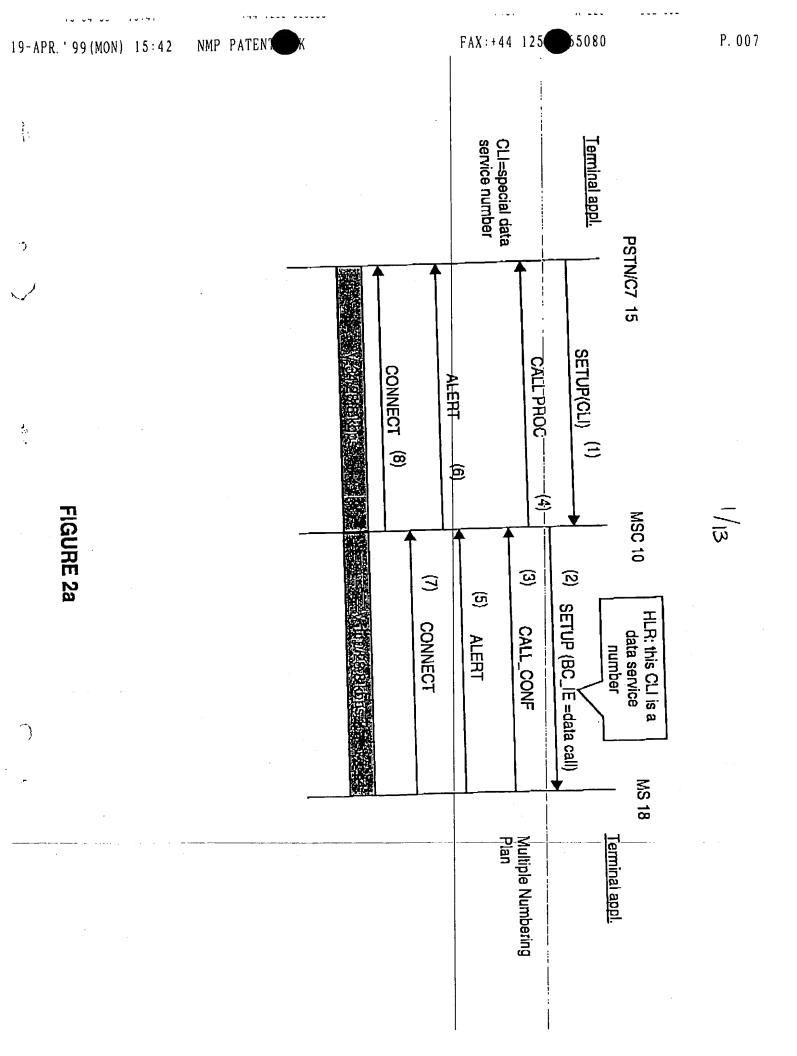
Abbreviations.

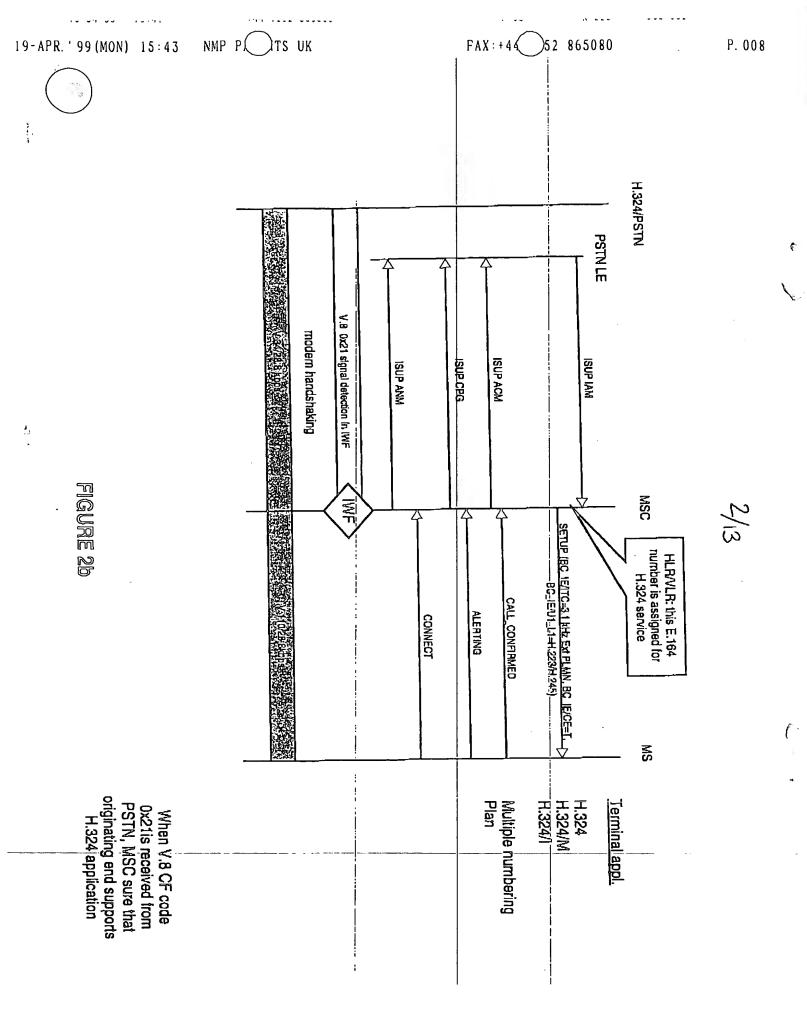
For the purposes of the present document, the following abbreviations apply:

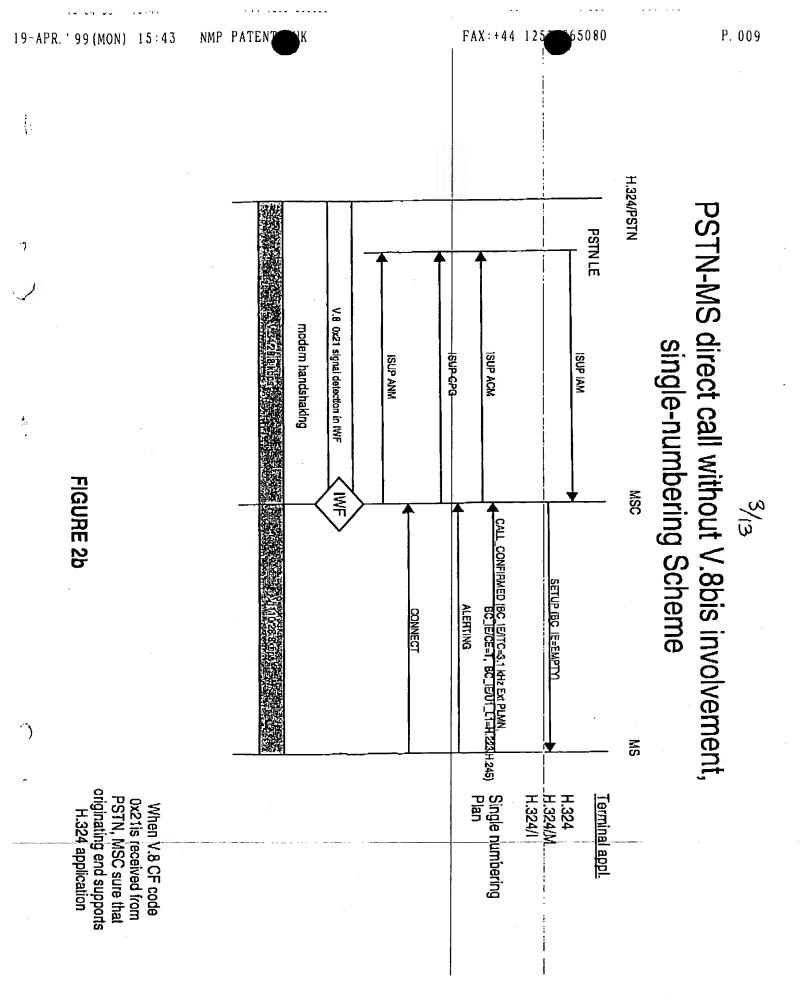
	ACM	Address Complete Message
	ANM	Answer Message
15	BC	Bearer Capability
	BS	Bearer Service
	CE	Connection Element
	CF	Call Function
	CI	Call Indicator
20	CM	Call Menu
	CPG	Call Progress
	DCE	Data Circuit Equipment
	DSS1	Digital Subscriber Signalling 1
	DTÉ	Data Terminating Equipment
25	FFS	For Further Study
	FNUR	Fixed Network User Rate
	GSTN	Ground Switched Telecommunications Network
	HLR	Home Location Register
	IAM	Initial Address Message
30	IE	Information Element
	IP	Internet Protocol
	ISDN	Integrated Services Digital Network
	ISUP	Integrated Services User Part
	ITC	Information Transfer Capability
35	IWF	Interworking Function
	JM	Joint Menu
	LE	Local Exchange
	LLC	Low Layer Compatibility
	MS	Mobile Station
40	MSC	Mobile Switching Centre
	N-ISDN	Narrow-band ISDN
	PLMN	Public Land switched Mobile Network
	PSTN	Public Switched Telephone Network
	SVD	Simultaneous Voice and Data
45	UDI	Unrestricted Digital Information
	UI_L1	User Information Layer-1-Protocol
	UTRAN	UMTS Terrestrial Radio Access Network
	WAIUR	Wanted Air Interface User Rate
	VLR	Visitor Location Register
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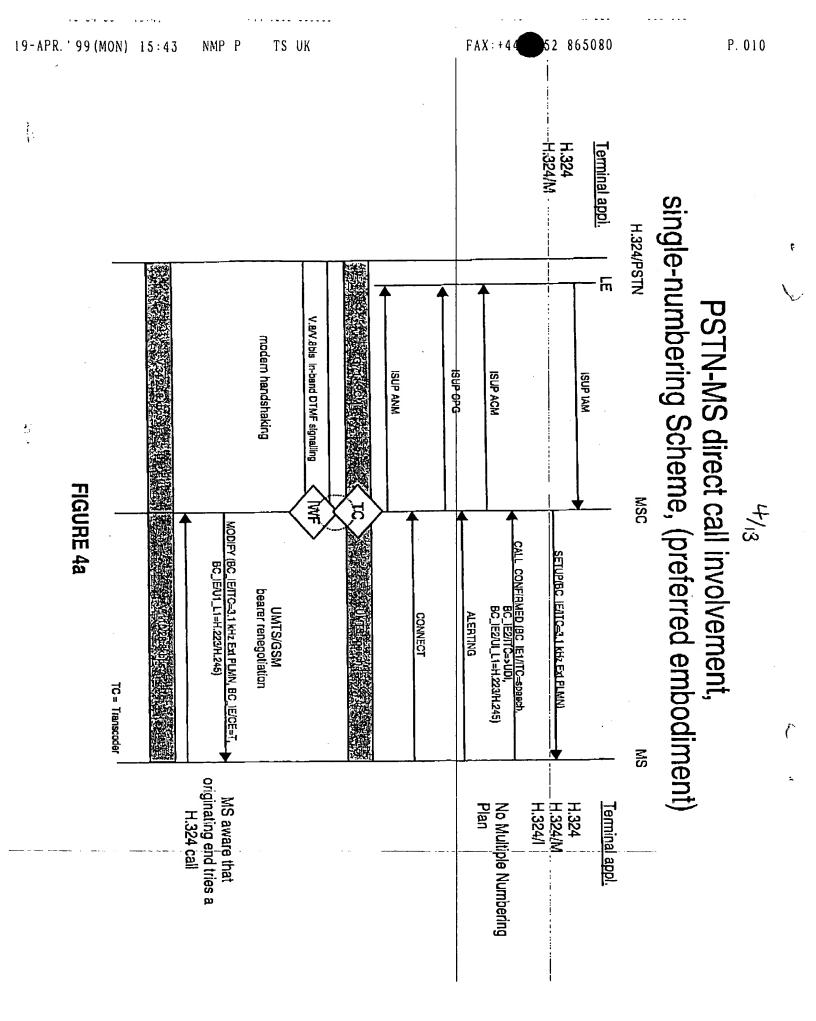
This description relates to call set-up procedures for setting up H.324 circuit switched multimedia calls to and from terminals that exploit the call control specified in GSM/UMTS 04.08 Release 99 version. These relate to so-far-identified circuit switched domain interworking scenarios, and explain in detail the call set-up process with illustrated call set-up message flows. More interworking scenarios may be developed.

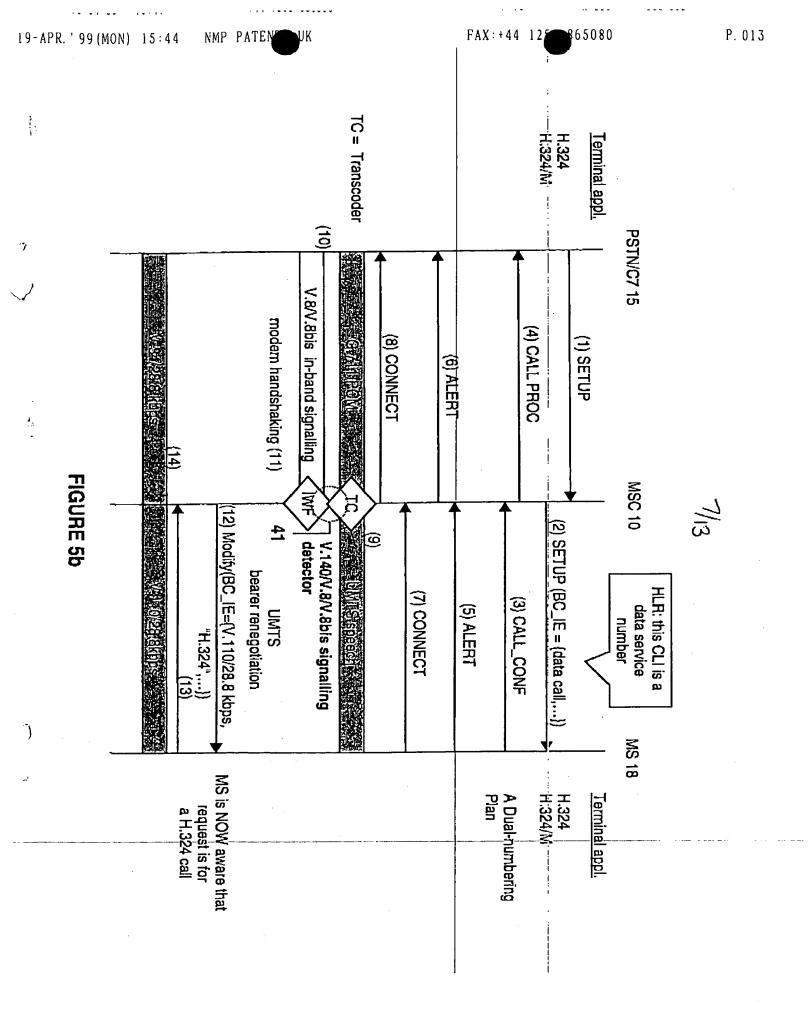
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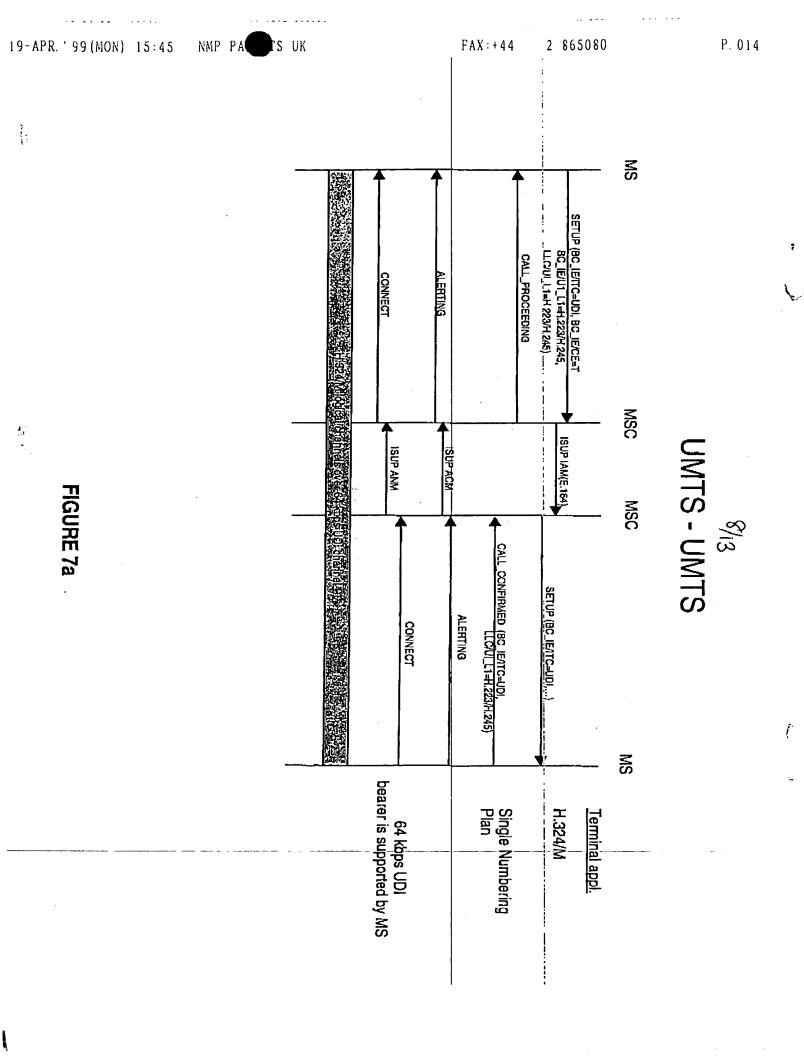


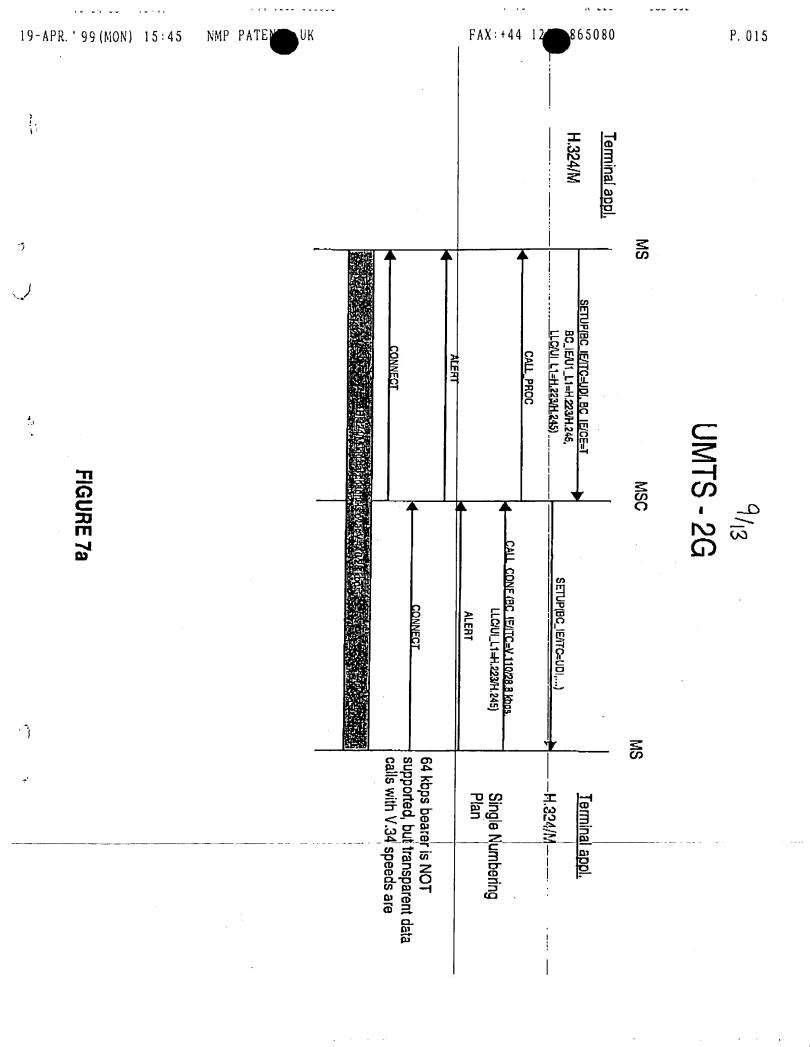


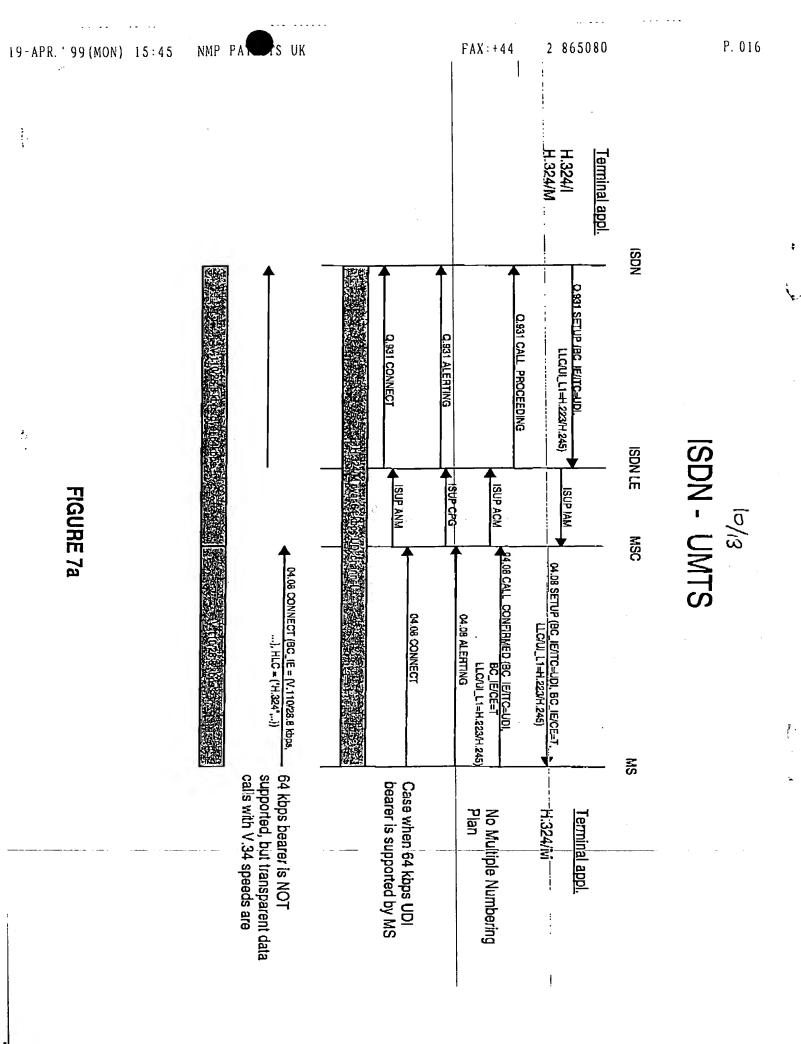








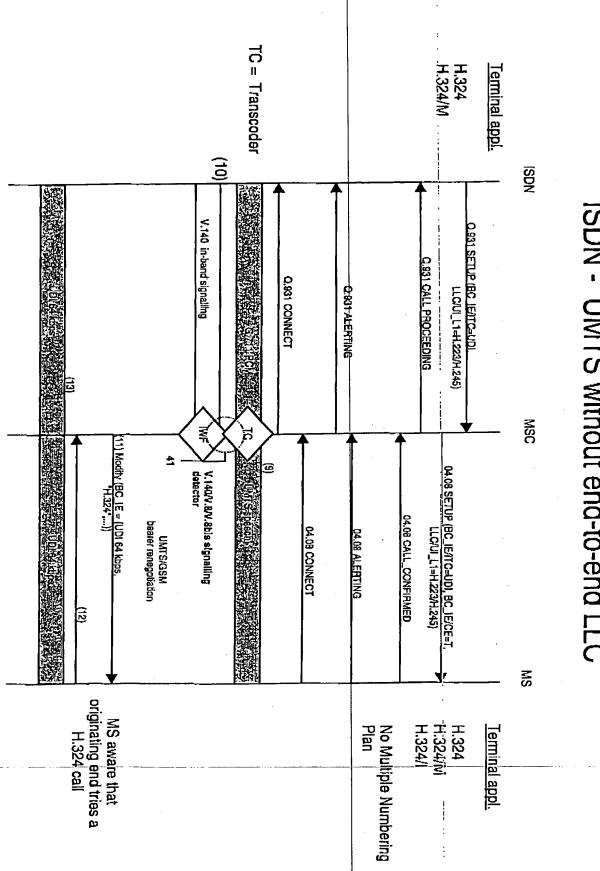




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FIGURE 7b





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